

Appl. No. 10/537,245
Amdt. dated May 26, 2009
Reply to Office action of February 24, 2009

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-9. (Canceled)

10. (Currently amended) An overpressure valve (10; 10a; 40) for a packaging container (5), comprising

a cup-shaped, rigid holder body (11; 11a; 50) embodied as a rotationally symmetrical, shallow body, having a raised peripheral region (13; 13a) extending all the way around and the top side of which can be joined to a length (3) of packaging material that forms an inside (2) of the packaging container (5), and a middle region (12) having an indentation (15; 15a; 42) with a flat bottom with at least two through openings (19, 20; 44) for gas embodied in the flat bottom therein, and

a valve diaphragm (22; 22a; 48), which covers the entire indentation and thus closes the at least two openings ~~one passage~~ (19, 20; 44) in the holder body (11; 11a; 50) up to a defined overpressure in the packaging container (5) ~~and at which overpressure at least one of the openings forms~~ ~~opening the passage~~ (19, 20; 44) ~~in the event of an everpressure to form~~ a conduit for the outflow of gas which escapes from the packaging container (5) via at least one opening (4; 38) embodied in the length (3) of packaging material of the packaging container (5) ~~inside the peripheral region (13; 13a)~~,

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~~wherein the holder body (11; 11a; 50) is embodied as a rotationally symmetrical, shallow body; and wherein the valve diaphragm (22; 22a; 48) is embodied in striplike fashion, with two straight edges (24, 25) disposed opposite one another, the valve diaphragm (22; 22a; 48) being joined in captive fashion to the holder body (11; 11a; 50) and in the middle region (12) having an indentation (15; 15a; 42) embodied in the region of the at least two openings (19, 20; 44).~~

11. **(Currently amended)** The overpressure valve of claim 10, wherein the indentation (15; 15a) has the form of at least two intersecting circles (16, 17), and wherein one opening passage (19, 20) is embodied substantially at each of the center points of the circles (16, 17).

12. **(Previously presented)** The overpressure valve of claim 10, wherein the indentation (42) has the form of a corporate logo or of a protected design trademark (43).

13. **(Currently amended)** The overpressure valve of claim 10, wherein the valve diaphragm (22; 22a; 48) is joined to the holder body (11; 11a; 50) on at least two opposed sides inside the peripheral region (13; 13a), between which sides the at least one opening passage (19, 20; 44) is disposed, and between the top side of the valve diaphragm (22; 22a; 48) and the top side of the peripheral region (13; 13a) of the holder body (11; 11a; 50), a spacing (a) is formed, in order to enable the escape of the gas to the at least one opening (4; 38) in the packaging container (5).

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14. **(Currently amended)** The overpressure valve of claim 11, wherein the valve diaphragm (22; 22a; 48) is joined to the holder body (11; 11a; 50) on at least two opposed sides inside the peripheral region (13; 13a), between which sides the at least one opening -passage (19, 20; 44) is disposed, and between the top side of the valve diaphragm (22; 22a; 48) and the top side of the peripheral region (13; 13a) of the holder body (11; 11a; 50), a spacing (a) is formed, in order to enable the escape of the gas to the at least one opening (4; 38) in the packaging container (5).

Claims 15-16. **(Canceled)**

17. **(Currently amended)** The overpressure valve of claim 10, wherein the valve diaphragm (22; 22a; 48), in its regions (31, 32; 51, 52) joined to the holder body (11; 11a; 50), extends as far as the peripheral regions (13; 13a); and wherein the valve diaphragm (22; 22a; 48), in the regions not joined to the holder body (11; 11a; 50), is spaced apart from the peripheral region (13; 13a) of the holder body (11; 11a; 50), so that at least one opening -passage for the gas is formed.

Claim 18. **(Canceled)**

19. **(Previously presented)** The overpressure valve of claim 10, further comprising at least one raised area (14) extending all the way around embodied on the top side of the holder

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body (11), in the region where it is joined to the packaging container (5) or the length (3) of material for joining the holder body (11) to the length (3) of material by ultrasonic welding.

20. **(Previously presented)** The overpressure valve of claim 11, further comprising at least one raised area (14) extending all the way around embodied on the top side of the holder body (11), in the region where it is joined to the packaging container (5) or the length (3) of material for joining the holder body (11) to the length (3) of material by ultrasonic welding.

21. **(Previously presented)** The overpressure valve of claim 13, further comprising at least one raised area (14) extending all the way around embodied on the top side of the holder body (11), in the region where it is joined to the packaging container (5) or the length (3) of material for joining the holder body (11) to the length (3) of material by ultrasonic welding.

22. **(Previously presented)** The overpressure valve of claim 10, further comprising at least one raised area (14) extending all the way around embodied on the top side of the holder body (11), in the region where it is joined to the packaging container (5) or the length (3) of material for joining the holder body (11) to the length (3) of material by ultrasonic welding.

23. **(Previously presented)** The overpressure valve of claim 10, further comprising an adhesive layer (37) is applied to the top side of the holder body (11a), in the region where it is joined to the packaging container (5) or the length (3) of material.

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24. **(Previously presented)** The overpressure valve of claim 11, further comprising an adhesive layer (37) is applied to the top side of the holder body (11a), in the region where it is joined to the packaging container (5) or the length (3) of material.

25. **(Previously presented)** The overpressure valve of claim 13, further comprising an adhesive layer (37) is applied to the top side of the holder body (11a), in the region where it is joined to the packaging container (5) or the length (3) of material.

26. **(Previously presented)** The overpressure valve of claim 10, further comprising an adhesive layer (37) is applied to the top side of the holder body (11a), in the region where it is joined to the packaging container (5) or the length (3) of material.

27. **(Previously presented)** The overpressure valve of claim 17, further comprising an adhesive layer (37) is applied to the top side of the holder body (11a), in the region where it is joined to the packaging container (5) or the length (3) of material.

28. **(Previously presented)** The overpressure valve of claim 10, wherein the indentation (15; 15a; 42) has a depth of approximately 0.2 mm relative to the surface of middle region (12).

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29. **(Previously presented)** The overpressure valve of claim 11, wherein the indentation (15; 15a; 42) has a depth of approximately 0.2 mm relative to the surface of middle region (12).

30. **(Previously presented)** An overpressure valve (10; 10a; 40) for a packaging container (5), consisting of

a cup-shaped, rigid holder body (11; 11a; 50), having a raised peripheral region (13; 13a) extending all the way around and the top side of which can be joined to a length (3) of packaging material that forms an inside (2) of the packaging container (5), and a middle region (12) having at least one through passage (19, 20; 44) for gas embodied therein, and a valve diaphragm (22; 22a; 48), which closes the at least one passage (19, 20; 44) in the holder body (11; 11a; 50) up to a defined overpressure in the packaging container (5) and opening the passage (19, 20; 44) in the event of an overpressure to form a conduit for the outflow of gas which escapes from the packaging container (5) via at least one opening (4; 38) embodied in the length (3) of packaging material of the packaging container (5) inside the peripheral region (13; 13a),

the valve diaphragm (22; 22a; 48) being joined in captive fashion to the holder body (11; 11a; 50) and in the middle region (12) having at least one indentation (15; 15a; 42) embodied in the region of the at least one passage (19, 20; 44).

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31. **(Previously presented)** The overpressure valve of claim 10, wherein the at least two openings (19, 20; 44) are located on a center axis (26) which is oriented substantially perpendicular to the edges (24, 25) of the valve diaphragm (22, 22a; 48).
32. **(New)** An overpressure valve (10; 10a; 40) for a packaging container (5), consisting of
 - a shallow cup-shaped, rotationally symmetric rigid holder body (11; 11a; 50), having a raised peripheral region (13; 13a) extending all the way around and the top side of which can be joined to a length (3) of packaging material that forms an inside (2) of the packaging container (5), and a middle region (12) having an indentation with a flat bottom and at least two through passages (19, 20; 44) for gas embodied in the flat bottom, and
 - a valve diaphragm (22; 22a; 48), which covers the entire indentation and thus closes the at least two passages (19, 20; 44) in the holder body (11; 11a; 50) up to a defined overpressure in the packaging container (5) at which overpressure at least one of the openings forms a conduit for the outflow of gas which escapes from the packaging container (5) via at least one of the openings,
 - the valve diaphragm (22; 22a; 48) is embodied in striplike fashion with two straight edges disposed opposite one another, and the valve diaphragm being joined in captive fashion to the holder body (11; 11a; 50).